

What is claimed is:

- 1. An air-ventilating shoe sole, comprising:**
a shoe sole base;
an X-shaped ventilating groove on a top surface of said shoe sole
base;
a plurality of transverse recesses on a portion of said top surface of
said shoe sole base corresponding to a thenar portion and an arch portion
of a foot;
a pair of main ventilating grooves crossing said transverse recesses to
form an air passage net, rear ends of said main ventilating grooves being
connected to a front end of said X-shaped ventilating groove; and
a flange vertically extending from a rear portion of said shoe sole
base, an inner wall of said flange being provided with a pair of elongated
air-circulating chambers, bottom ends of said air-circulating chambers
being connected to a rear end of said X-shaped ventilating groove, said
flange further including a pair of vent holes disposed in an upper portion
thereof, said vent holes going through upper ends of said air-circulating
chambers;
whereby warm and humid air inside a shoe said shoe sole is attached
to and ambient air can exchange;
whereby positions of said vent holes can effectively prevent inward
permeation of water; and
whereby said shoe sole will not influence the outlook and the
comfort of the shoe.
- 2. The air-ventilating shoe sole of claim 1 wherein there is one**
air-circulating chambers.
- 3. The air-ventilating shoe sole of claim 1 wherein there are two**
air-circulating chambers.
- 4. An air-ventilating shoe sole, comprising:**
a shoe sole base;
a main ventilating groove of shape selected from capital omega and

cursive l on a top surface of said shoe sole base;

a plurality of transverse recesses on a portion of said surface of said shoe sole base corresponding to the thenar portion and the arch portion of a foot; and

5 a pair of flanges respectively extending uprightly from two lateral sides of said shoe sole base, an inner wall of each of said flanges being provided with a plurality of elongated air-circulating chambers, a bottom end of each of said air-circulating chambers being connected to a leg of said main ventilating groove, a top end of each of said air-circulating chambers being provided with a vent hole.

10 5. The air-ventilating shoe sole of claim 1 further including an air-ventilating channel formed on said top surface of said shoe sole base, said air-ventilating channel having a front end connected to said main ventilating grooves and a rear end connected to said flange, said air-circulating chambers being two air passages formed through a U-shaped frame divided by a central vertical partition strip, said U-shaped frame enclosing a rear exit of said air-ventilating channel, a cover being attached to said flange so as to isolate said rear exit of said air-ventilating channel from outside, said two air passages respectively connecting said vent holes, thereby warm and humid air inside a shoe said shoe sole is attached to and ambient air can exchange.